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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/052,445		01/23/2002	Yutaka Sakakibara	111752	1955
25944	7590	07/02/2003	·		
OLIFF & B		E, PLC	EXAMINER		
P.O. BOX 19928 ALEXANDRIA, VA 22320				PHASGE, ARUN S	
				ART UNIT	PAPER NUMBER
				1753	
				DATE MAILED: 07/02/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		CA CA					
	Application No.	Applicant(s)					
, 045 4-45 0	10/052,445	SAKAKIBARA, YUTAKA					
Office Action Summary	Examiner	Art Unit					
	Arun S. Phasge	1753					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD IN THE MAILING DATE OF THIS COMMUN  - Extensions of time may be available under the provision after SIX (6) MONTHS from the mailing date of this community of the period for reply specified above is less than thirty of the period for reply is specified above, the maximum of the period for reply within the set or extended period for reply any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).  Status	NICATION. as of 37 CFR 1.136(a). In no event, however, manunication. (30) days, a reply within the statutory minimum statutory period will apply and will expire SIX (6) by will, by statute, cause the application to become	ay a reply be timely filed of thirty (30) days will be considered timely. MONTHS from the mailing date of this communication. ne ABANDONED (35 U.S.C. § 133).					
1) Responsive to communication(s) 1	filed on						
2a)☐ This action is FINAL.	2b)⊠ This action is non-final.						
closed in accordance with the pra-		matters, prosecution as to the merits is 5 C.D. 11, 453 O.G. 213.					
Disposition of Claims	annlination						
4) Claim(s) 1-8 is/are pending in the	••						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.	of the second	·					
6)⊠ Claim(s) <u>1-8</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.  Application Papers							
9)☐ The specification is objected to by the	ne Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are re							
12)☐ The oath or declaration is objected t	, ,						
Priority under 35 U.S.C. §§ 119 and 120							
13)⊠ Acknowledgment is made of a clair	n for foreign priority under 35 U.S	C & 119(a)-(d) or (f)					
a)⊠ All b)□ Some * c)□ None of:	into rotoigh phoney under 00 0.0	.e. 3 110(a) (a) 61 (i).					
1.⊠ Certified copies of the priority	v documents have been received						
	y documents have been received						
		een received in this National Stage					
	national Bureau (PCT Rule 17.2(	a)).					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
<ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review ( 3) Information Disclosure Statement(s) (PTO-1449)	PTO-948) 5) Notice	view Summary (PTO-413) Paper No(s) e of Informal Patent Application (PTO-152)					
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)	Office Action Summary	Part of Paper No. 4					

### DETAILED ACTION

## Claim Rejections - 35 USC \$ 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Greenberg et al. (Greenberg), U.S. Patent 6,471,873 B1.

Greenberg discloses the claimed method of removing phosphorous from water comprises immersing electrodes into a tank filled with water, applying a DC voltage between the electrodes to generate hydroxide ions through a cation migration in the water and/or an electrolysis and precipitating phosphate ions in the water (see col. 17, lines 30-60). The reference further discloses the claimed shapes of the electrodes and the flow through cell (see figures 1-9 and claims 1-

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89). The cell would include some granular solids, such as claimed since it is for the treatment of groundwater (see Abstract).

Therefore, since the Greenberg patent discloses each and every limitation, the claims are anticipated.

# Claim Rejections - 35 USC \$ 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Greenberg applied as above.

Greenberg, while disclosing the use of a filter, does not disclose the claimed method of recovering the phosphorus compound by backwash. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the disclosure of the Greenberg patent, because backwash is a conventional means to remove material that is deposited onto a filter.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arun 5. Phasge whose telephone number is (703) 308-2528. The examiner can normally be reached on MONDAY-THURSDAY, 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X Nguyen can be reached on (703) 308-3322. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

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Primary Examiner

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June 30, 2003